UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics
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THE FATS AND OILS SITUATION

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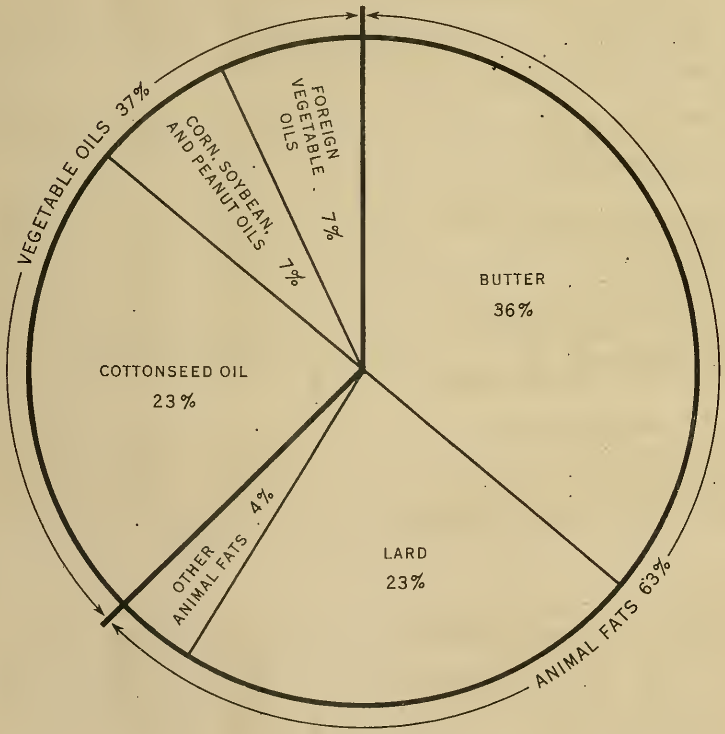
ESTIMATED CONSUMPTION OF PRIMARY FATS AND OILS IN FOODS AND FOOD PRODUCTS, UNITED STATES, 1938



U. S. DEPARTMENT OF AGRICULTURE NEG. 34379 BUREAU OF AGRICULTURAL ECONOMICS

Table 1.- Price per pound of specified fats and oils, March-April, 1938-39

Fat or oil	1938		1939	
	Mar.	Apr.	Mar.	Apr.
	Cents	Cents	Cents	Cents
Domestic prices -				
Butter, 92 score, N. Y.	30.33	27.74	24.30	23.11
Oleomargarine, domestic vegetable, Chicago	15.12	15.50	14.50	14.50
Lard, prime steam, Chicago	8.76n	8.21n	6.53n	6.33
Lard, refined, Chicago	9.95	9.35	7.52	7.28
Lard compound, Chicago	10.20	10.34	9.25	9.25
Coconut oil, edible, N. Y.	6.06	5.55	4.38	4.38
Cottonseed oil, crude, f.o.b. S. E. mills	7.03n	6.93	5.78	5.53n
Cottonseed oil, p.s.y., N. Y.	8.20	8.20	6.90	
Soybean oil, refined, N. Y.	9.25	8.75	7.50	7.50
Peanut oil, domestic refined, N. Y.	10.24	10.14	9.12	8.98
Rape oil, refined, N. Y.	11.96	11.60	10.80	10.80
Oleo oil, No. 1, N. Y.	9.19	8.90	8.19	8.10
Oleostearine, barrels, N. Y.	7.56	6.72	6.62	6.22
Corn oil, refined, N. Y.	10.16	9.68	8.88	8.88
Olive oil, edible, N. Y.	26.00	25.73	25.07	25.07
Teaseed oil, crude, N. Y.	8.38	7.65	8.94	9.48
Coconut oil, crude, Pacific Coast	3.62	3.10	2.89	2.79
Tallow, inedible, Chicago	5.03	4.65	5.14	5.02
Grease, house, N. Y.	4.60	4.05	4.94	4.84
Palm oil, crude, N. Y.	4.14	3.83	3.82	3.82
Olive oil foots, barrels, N. Y.	8.94	8.60	7.03	6.99
Palm-kernel oil, denatured, N. Y.	4.12n	3.97	3.45n	3.43n
Babassu oil, tanks, N. Y.	6.68	6.45n	6.12n	6.12n
Sardine oil, tanks, Pacific Coast	6.20	5.44	4.07n	4.45n
Linseed oil, raw, Minneapolis	9.57	9.30	8.58	8.70
Tung oil, drums, N. Y.	13.28	12.50	15.16	16.05n
Perilla oil, drums, N. Y.	10.62	10.62	9.67	9.68
Soybean oil, crude, f.o.b. mills	6.40	5.92	4.91	4.72
Menhaden oil, crude, f.o.b. Baltimore	4.92n	4.67n	4.07n	4.21
Foreign prices - 1/				
Cotton oil, crude, naked, Hull	4.23	3.82	3.67	2/3.59
Copra, Resecada, Philippine Islands	1.58	1.24	2/1.29	
Palm-kernel oil, crude, Hull	4.34	4.14	3.72	2/3.66
Whale oil, crude, No. 1, Rotterdam 3/	3.14	3.03	3.16	2/3.20
Tallow, beef fair-fine, London	4.51	4.39	3.87	2/3.99
Linseed oil, naked, Hull	6.04	5.61	5.10	2/5.08

1/ Converted to U. S. cents per pound at current monthly rates of exchange.

2/ Preliminary.

3/ Beginning March 1, 1939, prices are for "crude, No. 1, ex. tank, Rotterdam, minimum 500 ton lots."

THE FATS AND OILS SITUATION

During the past 3 calendar years, the estimated disappearance of 35 primary fats and oils in the United States has totaled more than 9 billion pounds annually. About 67 percent of this total was used for food purposes, either directly as butter and lard and salad oils, or in manufactured products such as vegetable cooking fats, oleomargarine, mayonnaise and many other commodities.

The soap industry utilized about 18 percent of the total fats and oils consumed. Paints, varnishes, linoleum, oilcloth, etc., probably accounted for at least 7 percent. This leaves about 8 percent distributed among all the other consuming outlets.

The chart on the cover page shows the estimated percentages contributed by the various fats used as food in 1938. The tables appearing in this issue show total quantities and percentages of individual fats and oils reported as used in factory manufacture of cooking fats, oleomargarine, soap, paint, varnish, linoleum, and oilcloth.

In the April 1939 issue of the Fats and Oils Situation, data were presented showing factory consumption and total disappearance of the major individual fats and oils, by classes of products.

Flaxseed Prices and the Tariff is the title of a report prepared by the Bureau of Agricultural Economics for the United States Senate. This report, published as Senate Document No. 62, 76th Congress, 1st Session, was made in response to Senate Resolution No. 167, 75th Congress.

RECENT CHANGES IN DOMESTIC PRODUCTION AND CONSUMPTION OF FATS AND OILS

Significant changes in the domestic production and consumption of fats and oils in recent years have included: (1) a marked reduction in lard production and an increased production of compounds and vegetable cooking fats, (2) a marked decrease in the proportion of coconut oil used in the manufacture of margarine and a corresponding increase in the proportion of cottonseed oil so used, and (3) marked increases in the production and consumption of soybean oil.

Lard production on the increase

Lard production was reduced sharply by the drastic curtailment in hog slaughter from 1934 to 1937. Over a period of years the per capita consumption of lard and of compounds and vegetable cooking fats, taken together, has remained nearly constant at about 22 pounds. With the drop in lard production, the quantity of other fats and oils used in the manufacture of compounds and vegetable cooking fats, which totaled 1,215 million pounds in 1934, increased to 1,614 million pounds in 1936, and in 1938 totaled 1,512 million pounds.

Production of lard under Federal inspection in 1938 reached 1,076 million pounds, the largest since 1934. Both the number of hogs slaughtered and average yield of lard per hog for 1939 are expected to be greater than in 1938, and it seems likely that inspected lard production this year will total close to 1,300 million pounds. This would compare with 662 million pounds in 1935, the smallest in many years, and a 5-year (1929-33) average of 1,618 million pounds.

Storage holdings of lard on January 1 this year, totaling 107 million pounds, were the second largest for that date since 1934, and were considerably larger than the 1929-33 average holdings for January 1 of 62 million pounds. Net exports of lard, including shipments to noncontiguous territories of the United States, are expected to be somewhat larger this year than the 234 million pounds exported in 1938. They probably will continue much below the 1929-33 average net exports of 666 million pounds, however, chiefly because of the sharp reduction in takings by Germany since that period. If exports of lard total no more than 300 million pounds this year, supplies of lard for domestic consumption are likely to be about 100 million pounds in excess of those in the 1929-33 period and about 200 million pounds larger than those of 1938. And domestic lard supplies in 1940 are likely to be even larger than those in 1939.

With increased lard supplies this year and next compared with those of the past few years, it is probable that the use of fats and oils other than lard for compounds and vegetable cooking fats, particularly cottonseed oil, will be reduced.

More cottonseed oil used in margarine

A sharp decrease in the proportion of coconut oil used in the manufacture of margarine has taken place in recent years, chiefly because of excise taxes levied in various States on margarine containing imported oils, and because of the imposition in 1934 of a Federal excise tax of 3 cents per pound on coconut oil from the Philippines. In 1933, coconut oil made up 75 percent of the total fats and oils used in the manufacture of margarine, but the percentage of coconut oil in margarine was reduced to 57 percent in 1934 and to 29 percent in 1938. The percentage of cottonseed oil used in making margarine, on the other hand, increased from 9 percent in 1933 to 25 percent in 1934, and to 46 percent in 1938.

Soybean oil also has been substituted, in part, for coconut oil in margarine. Until 1936, only negligible quantities of soybean oil were used in making margarine. But in 1938, soybean oil made up 13 percent of the total fats and oils so used.

Production of cottonseed oil in the calendar year 1938 was the largest in 11 years. With cotton production in 1938 much smaller than the record crop of 1937, however, the quantity of cottonseed available for crushing from January through July 1939 is considerably smaller than in the corresponding period of 1938. Hence it is probable that the production of cottonseed oil in 1939 will be smaller than in 1938, even if cotton production this year should prove to be larger than that of last year. Stocks of cottonseed oil on January 1, 1939, were reported to be almost 100 million pounds larger than a year earlier. Factory production of crude cottonseed oil for the first quarter of 1939 was reported to be 391 million pounds, compared with 595 million pounds for the first quarter of 1938.

Although supplies of cottonseed oil this year are somewhat smaller than a year ago, the demand for cottonseed oil for use in vegetable cooking fats is weaker because of the increased amount of lard available for domestic consumption. Prices of both lard and cottonseed oil thus far in 1939 have been lower than those of corresponding months in 1938. (See table 1.)

Marked increase in soybean oil production

With increased plantings and crushings of soybeans, the production of soybean oil in the United States increased from 11 million pounds in 1929 to 322 million pounds in 1938, with most of the increase occurring after 1934. Domestic soybean production in 1938 was the largest on record, with 58 million bushels of beans harvested compared with 45 million bushels in 1937 and 9 million bushels in 1929. A further increase in soybean production is in prospect this year. Production of soybean oil in 1939 probably will total considerably more than the record oil production of 1938, and production may increase again in 1940. Prices of soybean oil have been lower than those of a year earlier thus far in 1939.

Table 2.- Oleomargarine: Production and materials used in manufacture, United States, February and March, 1938-39

Item	1938		1939 1/	
	Feb.	Mar.	Feb.	Mar.
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Oleo oil	911	1,353	1,289	1,326
Oleostearine	248	264	228	271
Lard neutral	146	155	115	112
Oleo stock	72	109	132	95
Total animal	1,377	1,881	1,764	1,804
Cottonseed oil	16,792	16,327	9,412	9,678
Soybean oil	2,756	2,514	4,395	5,452
Peanut oil	318	525	194	203
Corn oil	41	4	62	51
Total domestic vegetable 2/	19,907	19,370	14,063	15,384
Coconut oil	6,431	9,555	5,295	4,729
Babassu oil	1,099	1,145	1,168	1,596
Palm-kernel oil	528	1,238	44	173
Rice oil 3/	---	17	---	---
Total foreign vegetable 4/	8,058	11,955	6,507	6,498
Total fats and oils	29,342	33,206	22,334	23,686
Milk	6,949	7,605	5,422	5,861
Salt and other miscellaneous	1,644	1,773	1,256	1,316
Production of oleomargarine	36,201	40,961	27,701	29,417

1/ Preliminary.

2/ Ordinarily domestically produced.
3/ Bureau of the Census; probably oil imported from Japan.
4/ Not domestically produced.

Compiled and computed from Bureau of Internal Revenue records and Internal Revenue Bulletin.

Table 3.-Compounds and vegetable cooking fats: Factory consumption of fats and oils used in the production of these foods, United States, 1912-38

Item	1912	1914	1916	1917	1918	1920	1921
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Vegetable-							
Cottonseed oil	866,696	1,053,142	919,447	1,069,214	1,015,051	605,309	709,062
Soybean oil	---	1,585	14,247	34,351	56,517	17,607	8,166
Peanut oil	1,687	2,144	17,869	12,209	27,912	48,209	15,761
Corn oil	---	---	13,105	4,166	2,288	7,095	2,960
Total domestic 1/	868,383	1,056,871	964,668	1,119,940	1,101,768	678,220	735,949
Coconut oil	---	---	---	5,545	13,408	9,714	3,014
Other 2/	6,598	6,158	18,206	30,715	39,426	6,720	7,449
Total foreign 3/	6,598	6,158	18,206	36,260	52,834	16,434	10,463
Animal and marine-							
Tallow, edible	10,834	13,945	9,852	9,953	11,361	9,925	10,142
Oleostearine	57,644	64,926	49,493	54,959	54,598	41,871	46,779
Lard 4/	1,200	1,290	1,069	1,004	1,850	9,604	15,042
Oleo oil	---	---	---	---	---	97	235
Total animal	69,678	80,161	60,414	65,916	67,809	61,497	72,198
Fish and marine	---	---	---	---	---	---	---
Total fats and oils	944,659	1,143,190	1,043,288	1,222,116	1,222,411	756,151	818,610

Continued-

Table 3.--Compounds and vegetable cooking fats: Factory consumption of fats and oils used in the production of these foods, United States, 1912-38 - Contd

Item	1922	1923	1929	1931	1932	1933	1934
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Vegetable--			5/				
Cottonseed oil	655,675	640,630	1,083,202	928,489	834,367	852,843	1,058,733
Soybean oil	---	681	---	10,869	4,889	489	2,735
Peanut oil	9,841	3,813	6/	5,960	3,502	3,330	8,837
Corn oil	14,200	6,721	6/	6,616	3,067	1,128	1,895
Total domestic 1/	679,716	651,845	1,083,202	951,934	845,825	857,790	1,072,200
Palm oil	---	---	7/ 1,191	34,536	22,126	21,116	16,717
Coconut oil	16,099	21,205	8/ 20,000	34,132	8,332	7,117	9,045
Sesame oil	---	---	---	33,817	7,797	7,371	4,720
Rape oil	---	---	---	---	---	---	122
Palm-kernel oil	---	---	---	158	---	---	---
Sunflower oil	---	---	---	---	---	2,469	901
Other 2/	9,149	8,404	417	18,549	957	---	1,626
Total foreign 3/	25,248	29,609	21,608	121,192	39,212	38,073	33,131
Animal and marine--							
Tallow, edible	10,683	23,408	25,556	69,548	45,708	46,437	73,416
Oleostearine	43,916	43,075	44,138	27,220	17,357	17,105	21,517
Lard 4/	11,489	7,066	23,123	8,860	5,636	3,171	2,635
Oleo oil	2,791	2,655	7,553	10,004	1,134	294	764
Total animal	68,879	76,204	100,370	115,632	69,835	67,007	98,332
Fish oils	---	---	14,921	16,676	11,520	9,272	10,775
Marine mammal oils				2,708	2,185	---	304
Total fats and oils	773,843	757,658	1,220,101	1,208,142	968,577	972,142	1,214,742

Continued-

Table 3.--Compounds and vegetable cooking fats: Factory consumption of fats and oils used in the production of these foods, United States, 1912-38 - Contd

Item	1935	1936	1937	1938	1939	1940	1941
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Vegetable-							
Cottonseed oil	991,798	918,866	1,162,596	1,040,162			
Soybean oil	52,452	113,897	90,798	143,318			
Peanut oil	90,900	88,470	58,141	52,402			
Corn oil	2,815	430	1,611	399			
Linseed oil	57	---	1,522	6			
Total domestic 1/	1,138,022	1,121,663	1,314,668	1,236,287			
Palm oil	117,377	168,808	123,677	115,033			
Coconut oil	44,034	38,427	12,531	26,199			
Sesame oil	34,967	33,120	29,269	5,435			
Rape oil	15,575	30,572	5,203	297			
Babassu oil	---	5,368	127	950			
Palm-kernel oil	825	627	47	614			
Sunflower oil	10,896	208	---	---			
Perilla oil	55	---	---	---			
Other 2/	12,839	15,640	870	695			
Total foreign 3/	236,568	292,770	171,724	149,223			
Animal and marine-							
Tallow, edible	120,384	116,908	66,278	74,251			
Oleostearine	27,026	36,358	29,664	32,845			
Lard	2,252	4,503	915	2,825			
Oleo oil	126	1,839	242	291			
Total animal	149,788	159,608	97,099	110,212			
Fish oils	27,671	40,278	21,284	16,529			
Marine mammal oils	427	---	66	48			
Total fats and oils	1,552,476	1,614,319	1,604,841	1,512,299			

Continued-

Table 3.--Compounds and vegetable cooking fats: Factory consumption of fats and oils used in the production of these foods, United States, 1912-38 - Contd

1/ i.e., mostly domestic, but some cottonseed oil, soybean, peanut, and corn oils are imported every year, and some of the imported oil may be used in the production of compounds and vegetable cooking fats.

2/ A small percentage may be domestic; arbitrarily placed in the foreign group. Includes vegetable stearine, miscellaneous vegetable oils, including sesame, sunflower, and hydrogenated oils, when reported. Palm oil is included in this group, 1912-23. Beginning 1931, includes unnamed vegetable oils reported as "other".

3/ Mostly of imported origin.

4/ Quoted as "pork fat and lard", 1912-29.

5/ Obtained by subtracting from the compound production in 1929 the estimated consumption of the other oils used in manufacture.

6/ Peanut and corn oils shown by the Bureau of the Census as used in 1929 in food industries other than oleomargarine, were regarded as used solely in making salad and table oils. This involves a slight error, for it is probable that small but indeterminate quantities of these oils were used in compounds.

7/ Palm oil shown by the Bureau of the Census as used in 1929 in food industries other than oleomargarine, was taken as used entirely in compounds. An estimate made by one of the leaders in the trade showed 10,000,000 instead of a little over 1,000,000 pounds.

8/ From the quantities of coconut and palm-kernel oils shown by the Bureau of the Census as consumed in 1929 in food industries other than oleomargarine, there were deducted sales of these oils to the confectionery and bakery trades by six leading refiners. The remainder, which is the figure given, is probably only a slight overstatement of the consumption of these oils in compounds.

Data are not available for 1913, 1915, 1919 and 1924-28.

Compiled as follows:

1912-29, U.S. Tariff Commission, Report 41, Certain Vegetable Oils, Whale Oil, and Copra, p. 160-161. 1912, 1914, 1916, and 1918 taken originally from Supp. to U.S. Dept. of Agriculture Bulletin No. 769; 1920-23 and 1929 represent estimates of the Tariff Commission.

1931-38, Bureau of the Census, Animal and Vegetable Fats and Oils, annual.

Table 4.-Compounds and vegetable cooking fats: Factory consumption expressed in percentages, of fats and oils used in production of these foods, United States, 1912-38

Item	1912	1914	1916	1917	1918	1920	1921	1922	1923
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Vegetable -									
Cottonseed oil	91.7	92.2	88.1	87.5	83.0	80.1	86.6	84.7	84.5
Soybean oil	-	.1	1.4	2.8	4.6	2.3	1.0	-	.1
Peanut oil	.2	.2	1.7	1.0	2.3	6.4	1.9	1.3	.5
Corn oil	-	-	1.3	.3	.2	.9	.4	1.8	.9
Total domestic	91.9	92.5	92.5	91.6	90.1	89.7	89.9	87.8	86.0
Coconut oil	-	-	-	.5	1.1	1.3	.4	2.1	2.8
Other 1/	.7	.5	1.8	2.5	3.2	.9	.9	1.1	1.1
Total foreign	.7	.5	1.8	3.0	4.3	2.2	1.3	3.2	3.9
Animal									
Tallow, edible	1.1	1.3	.9	.8	.9	1.3	1.2	1.4	3.1
Oleostearine	6.1	5.6	4.7	4.5	4.5	5.5	5.7	5.7	5.7
Lard 2/	.2	.1	.1	.1	.2	1.3	1.8	1.5	.9
Oleo oil	-	-	-	-	-	-	.1	.4	.4
Total animal oils	7.4	7.0	5.7	5.4	5.6	8.1	8.8	9.0	10.1
Total fats and oils	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

1/ Includes vegetable stearine, miscellaneous vegetable oils, including sesame, sunflower, and hydrogenated oils, when reported. Palm oil is included in this group, 1912-23. Beginning 1931, includes unnamed vegetable oils reported as "other".

2/ Quoted as "pork fat and lard", 1912-29.

3/ Less than one-tenth of one percent.

Computed from table 3. See that table for explanatory notes.

Continued -

Table 4.-Compounds and vegetable cooking fats: Factory consumption, expressed in percentages, of fats and oils used in production of these foods, United States, 1912-38 - Contd

Item	1929	1931	1932	1933	1934	1935	1936	1937	1938
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Vegetable -									
Cottonseed oil	88.8	76.9	86.1	87.7	87.2	63.9	56.9	72.5	68.8
Soybean oil	-	.9	.5	.1	.2	3.4	7.1	5.7	9.5
Peanut oil	-	.5	.4	.3	.7	5.9	5.5	3.6	3.4
Corn oil	-	.5	.3	.1	.2	.2	3/	.1	3/
Linseed oil	-	-	-	-	-	3/	-	.1	3/
Total domestic	88.8	78.8	87.3	88.2	88.3	73.4	69.5	82.0	81.7
Palm oil	.1	2.9	2.3	2.2	1.4	7.6	10.5	7.7	7.6
Coconut oil	1.6	2.8	.9	.7	.7	2.8	2.4	.8	1.7
Sesame oil	-	2.8	.8	.8	.4	2.2	2.0	1.8	.4
Rape oil	-	-	-	-	3/	1.0	1.9	.3	3/
Babassu oil	-	-	-	-	-	-	.3	3/	.1
Palm-kernel oil	-	3/	-	-	-	.1	3/	3/	3/
Sunflower oil	-	-	-	.3	.1	.7	3/	-	-
Perilla oil	-	-	-	-	-	3/	-	-	-
Other 1/	.1	1.5	.1	-	.1	.8	1.0	-	.1
Total foreign	1.8	10.0	4.1	4.0	2.7	15.2	18.1	10.6	9.9
Animal and marine -									
Tallow, edible	2.1	5.8	4.7	4.8	6.0	7.8	7.3	4.2	4.9
Oleostearine	3.6	2.3	1.8	1.8	1.8	1.7	2.3	1.9	2.2
Lard	1.9	.7	.6	.3	.2	.1	.3	3/	.2
Oleo oil	.6	.8	.1	3/	.1	3/	.1	3/	3/
Marine animal oils	1.2	1.6	1.4	.9	.9	1.8	2.5	1.3	1.1
Total animal and marine oils	9.4	11.2	8.6	7.8	9.0	11.4	12.4	7.4	8.4
Total fats and oils	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 5.- Oleomargarine: Materials used in manufacture, United States, calendar years, 1922-38

Item	1922	1923	1924	1925	1926	1927
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Oleo oil	41,523	50,222	49,369	45,582	46,797	49,508
Oleostearine	4,621	5,015	5,335	5,281	5,169	5,387
Lard neutral	26,952	31,205	29,836	25,199	24,168	24,960
Oleo stock	1,987	2,557	3,048	3,375	2,678	2,082
Butter	1,187	1,751	1,764	1,701	2,265	2,326
Edible tallow	---	40	32	156	46	219
Total animal	76,270	90,790	89,384	81,294	81,123	84,482
Cottonseed oil	14,869	20,457	20,338	24,326	23,448	24,621
Soybean oil	---	---	1/	1/	33	---
Peanut oil	8,164	5,955	5,096	4,823	5,239	4,682
Corn oil	---	232	413	51	274	82
Mustard oil	---	62	25	29	38	45
Vegetable stearine 2/	---	---	1	13	---	---
Misc. vegetable oil 2/	861	52	---	---	---	---
Total domestic vegetable 3/	23,894	26,758	25,873	29,242	29,032	29,430
Coconut oil	53,763	75,914	83,258	90,914	97,642	122,576
Palm-kernel oil	---	46	---	165	165	67
Palm oil	---	---	15	794	748	602
Sesame oil	---	195	422	---	277	51
Sunflower oil	---	---	---	---	68	---
Total foreign vegetable 4/	53,763	76,155	83,695	91,873	98,900	123,296
Total fats and oils	153,927	193,703	198,952	202,409	209,055	237,208
Milk	---	65,109	66,766	68,879	71,172	76,235
Salt and other misc.	---	19,697	19,572	20,277	20,520	23,637
Total	---	84,806	86,338	89,156	91,692	99,872
Grand total	5/	278,509	285,290	291,565	300,747	337,080

Continued -

Table 5.-Oleomargarine: Materials used in manufacture, United States, calendar years, 1922-38 - Cont'd

Item	1928	1929	1930	1931	1932	1933
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Oleo oil	44,795	48,226	38,916	18,786	12,453	15,095
Oleostearine	5,658	6,134	6,024	4,884	3,684	3,120
Lard neutral	25,722	22,628	14,905	9,665	9,415	8,959
Oleo stock	1,440	1,168	1,275	814	470	829
Butter	2,566	2,996	1,687	330	39	7
Edible tallow	61	22	6	-	-	-
Whale oil	-	-	-	1	1/	-
Total animal	80,242	81,174	62,813	34,480	26,061	28,010
Cottonseed oil	26,931	30,173	27,448	16,028	15,098	17,997
Soybean oil	1/	11	2,255	622	3	7
Peanut oil	6,329	6,307	5,787	4,598	2,511	2,635
Corn oil	21	-	159	51	54	341
Mustard oil	28	28	37	37	1/	-
Total domestic vegetable 3/	33,309	36,519	35,686	21,336	17,666	20,980
Coconut oil	159,852	185,507	177,990	133,118	123,219	150,096
Palm-kernel oil	86	1	3	-	-	-
Palm oil	1,169	1,523	861	2,428	261	544
Sesame oil	5	-	52	253	-	-
Total foreign vegetable 4/	161,112	187,031	178,906	135,799	123,480	150,640
Total fats and oils	274,663	304,724	277,405	191,615	167,207	199,630
Milk	93,493	98,840	90,201	61,519	49,044	58,417
Salt and other misc.	26,604	29,320	27,640	17,549	12,991	14,806
Total	120,097	128,160	117,841	79,068	62,035	73,223
Grand total	394,760	432,884	395,246	270,683	229,242	272,853

Continued -

Table 5.-Oleomargarine: Materials used in manufacture, United States, calendar years, 1922-38 - Cont'd

Item	1934	1935	1936	1937	1938 Prel.
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Oleo oil	21,872	18,227	18,330	12,278	13,411
Oleostearine	3,478	2,612	3,550	3,375	3,282
Lard neutral	7,486	3,005	2,199	1,748	1,464
Oleo stock	1,454	2,390	1,930	1,318	1,532
Butter	11	1	-	-	-
Total animal	34,301	26,235	26,009	18,719	19,689
Cottonseed oil	54,778	99,504	108,106	173,617	142,858
Soybean oil	24	1,740	14,261	31,791	39,885
Peanut oil	2,744	4,369	4,140	2,880	3,593
Corn oil	4	32	1,238	1,796	566
Soybean stearine	-	-	-	-	18
Vegetable stearine 2/	-	-	-	-	9
Total domestic vegetable 3/	6/57,551	7/105,685	127,745	210,084	186,929
Coconut oil	123,678	174,315	150,465	73,806	89,520
Babassu oil	-	1,838	16,114	14,607	11,547
Palm-kernel oil	-	425	2,401	7,946	4,746
Palm oil	66	3	1,400	1,063	1/
Sesame oil	-	77	58	1	-
Sunflower oil	-	100	5	-	-
Ouricuri oil	-	-	442	-	-
Rape oil	-	-	9	-	-
Rice oil 8/	-	-	-	-	69
Total foreign vegetable 4/	123,744	176,758	170,894	97,423	105,882
Total fats and oils	6/215,596	7/308,678	324,648	326,226	312,500
Milk	61,903	83,307	76,386	72,846	73,169
Salt and other misc.	16,619	22,520	21,386	19,073	18,235
Total	78,522	105,827	9/97,772	91,919	91,404
Grand total	294,118	414,505	9/422,420	418,145	385,020

Continued -

Table 5.-Oleomargarine: Materials used in manufacture, United States, calendar years, 1922-33 - Cont'd

1/ Not over 500 pounds.

2/ Source does not state whether domestic or foreign. Arbitrarily used as domestic.

3/ Ordinarily domestically produced.

4/ Not domestically produced.

5/ Total not computed owing to fact that milk and salt were not reported for months February-April.

6/ Includes 1,000 pounds vegetable oil (unnamed). Arbitrarily used as domestic.

7/ Includes 40,000 pounds vegetable oil (unnamed). Arbitrarily used as domestic.

8/ Bureau of the Census; probably oil imported from Japan.

9/ Includes 2,000 pounds color. Less than 500 pounds for each month.

December 1921 is the first month for which monthly data are published in the Bureau of Internal Revenue publications.

Annual totals on the calendar year basis are not published by the Bureau of Internal Revenue but are computed by the Bureau of Agricultural Economics from the monthly data published in the semi-annual cumulations of the Internal Revenue Bulletin. Totals for the year ending June 30 are published in the annual report of the Commissioner of Internal Revenue.

Table 6.-Oleomargarine: Percentage contributed by important items to the weight of fats and oils (excluding milk) used in manufacture, United States, calendar years, 1922-38

Item	1922	1923	1924	1925	1926	1927	1928	1929	1930
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Animal									
Oleo oil	27.0	25.9	24.8	22.5	22.4	20.9	16.3	15.8	14.0
Oleostearine	3.0	2.6	2.7	2.6	2.5	2.3	2.1	2.0	2.2
Lard neutral	17.5	16.1	15.0	12.5	11.6	10.5	9.4	7.4	5.4
Oleo stock	1.3	1.3	1.5	1.7	1.3	.9	.5	.4	.4
Butter	.8	.9	.9	.8	1.1	1.0	1.0	1.0	.6
Total animal	49.6	46.8	44.9	40.2	38.9	35.7	29.3	26.6	22.6
Vegetable									
Cottonseed oil	9.7	10.6	10.2	12.0	11.2	10.4	9.8	9.9	9.9
Soybean oil	---	---	1/	1/	1/	---	1/	1/	.8
Peanut oil	5.3	3.1	2.6	2.4	2.5	2.0	2.3	2.1	2.1
Corn oil	---	.1	.2	1/	.1	1/	1/	---	.1
Total domestic 2/	15.5	13.9	13.0	14.4	13.8	12.4	12.1	12.0	12.9
Coconut oil	34.9	39.2	41.9	44.9	46.7	51.7	58.2	60.9	64.2
Palm-kernel oil	---	1/	---	.1	.1	1/	1/	1/	1/
Palm oil	---	---	1/	.4	.4	.2	.4	.5	.3
Total foreign 3/	34.9	39.3	42.1	45.4	47.3	51.9	58.6	61.4	64.5
Total fats and oils	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Item	1931	1932	1933	1934	1935	1936	1937	1938
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Animal								
Oleo oil	9.8	7.5	7.5	10.1	5.9	5.6	3.8	4.3
Oleostearine	2.6	2.2	1.6	1.6	.9	1.1	1.0	1.0
Lard neutral	5.0	5.6	4.5	3.5	1.0	.7	.5	.5
Oleo stock	.4	.3	.4	.7	.8	.6	.4	.5
Butter	.2	1/	1/	1/	1/	---	---	---
Total animal	18.0	15.6	14.0	15.9	8.6	8.0	5.7	6.3
Vegetable								
Cottonseed oil	8.4	9.0	9.0	25.4	32.2	33.3	53.2	45.7
Soybean oil	.3	1/	1/	1/	.6	4.4	9.8	12,8
Peanut oil	2.4	1.5	1.3	1.3	1.4	1.3	.9	1.2
Corn oil	1/	1/	.2	1/	1/	.4	.6	.2
Total domestic 2/	11.1	10.5	10.5	26.7	34.2	39.4	64.5	59.9
Coconut oil	69.5	73.7	75.2	57.4	56.5	46.4	22.6	28.6
Babassu oil	---	---	---	---	.6	5.0	4.5	3.7
Palm-kernel oil	---	---	---	---	.1	.7	2.4	1.5
Palm oil	1.3	.2	.3	1/	1/	.4	.3	---
Total foreign 3/	70.9	73.9	75.5	57.4	57.2	52.6	29.8	33.8
Total fats and oils	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

1/ Less than .05 of one percent. 2/ Ordinarily domestically produced.

3/ Not domestically produced.

Totals include .5 of one percent or less of edible tallow, whale oil, mustard oil, vegetable stearine, miscellaneous vegetable oil, sesame oil, sunflower oil, ouricuri oil, rape oil, and rice oil, in certain years. See table 5.

Table 7.- Other edible products: Factory consumption of fats and oils used in the manufacture of edible products other than compounds and vegetable shortenings, and oleomargarine, United States, 1931-38

Fat or oil	1931	1932	1933	1934	1935	1936	1937	1938
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Lard	3,317	3,951	4,810	3,837	3,903	471	6,013	5,518
Oleostearine	312	2,243	3,402	2,474	3,901	4,370	4,926	5,074
Tallow, edible	431	574	691	1,703	1,156	1,412	1,593	2,292
Oleo oil	2,018	80	703	108	86	467	41	40
Total animal	6,078	6,848	9,606	8,122	9,046	6,720	12,573	13,624
Cottonseed oil	84,435	100,129	121,558	155,343	138,580	178,330	226,647	198,155
Corn oil	20,307	27,330	27,893	38,630	36,122	51,017	63,883	57,104
Soybean oil	---	180	460	509	9,421	21,598	15,530	11,280
Peanut oil	1,434	1,180	1,269	854	3,602	2,419	1,937	1,920
Total domestic vegetable 1/	106,176	128,819	151,180	195,336	187,725	253,364	290,997	268,459
Coconut oil	52,984	40,853	69,333	78,636	87,060	60,020	49,886	61,493
Palm-kernel oil	22,579	11,310	7,757	4,608	14,895	12,490	21,294	13,118
Babassu oil	---	---	---	---	---	2,995	11,294	8,969
Olive oil, edible	1,697	1,516	1,861	2,188	2,213	3,972	3,180	2,850
Sesame oil	141	132	4,800	1,408	14,605	16,728	3,435	1,573
Palm oil	914	415	681	538	399	195	944	444
Sunflower oil	---	---	2,535	1,003	910	920	2/	2/
Rape oil	---	---	---	---	460	808	---	---
"Other" vegetable oils 3/	266	172	---	627	2,693	5,025	5,848	6,525
Total foreign vegetable 4/	78,581	54,398	86,967	89,008	123,235	103,153	95,881	94,972
Total fats and oils	190,835	190,065	247,753	292,466	320,006	363,237	416,451	377,055

1/ Ordinarily domestically produced. 2/ Included in "other vegetable oils".

3/ This item is reported as "other vegetable oils". May be either foreign or domestic; arbitrarily assumed to be foreign.

4/ Not domestically produced.

Compiled from Bureau of the Census, Animal and Vegetable Fats and Oils, annual.

Table 8.- Soap: Fats, oils, and rosin used in manufacture, United States, specified years, 1912-38

Fat or oil	1912	1914	1916	1917	1919
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Hard oils (tallow class):					
Slow lathering -					
Tallow, inedible	238,683	270,713	338,931	362,297	326,587
Whale and fish oils 1/	11,030	15,876	12,852	13,308	13,555
Grease	76,470	84,573	102,134	114,616	33,871
Palm oil	7,546	10,000	14,938	27,345	17,268
Total	333,729	381,162	468,855	517,566	391,281
Quick lathering -					
Coconut oil	78,616	77,959	111,084	168,602	182,613
Palm-kernel oil	20,579	31,376	5,804	4,762	4,551
Total	99,195	109,335	116,888	173,364	187,164
Soft oils:					
Cottonseed oil foots	89,127	108,141	112,178	115,042	108,389
Olive oil, foots and inedible	6,147	8,046	10,595	12,231	4,899
Red oil	8,723	10,275	10,230	12,812	24,205
Cottonseed oil	132,312	119,254	194,916	126,390	56,130
Soybean oil	1,182	4,499	57,373	124,058	58,401
Corn oil	9,822	11,368	12,821	15,997	2,235
Peanut oil	31	76	1,181	15,126	3,055
Miscellaneous soap stock	25,000	25,000	25,000	25,000	60,653
Other 2/	35,883	41,517	48,758	64,094	41,111
Total	308,227	328,176	473,052	510,750	359,078
Total fats and oils	741,151	818,673	1,058,795	1,201,680	937,523
Rosin	(200,000)	185,310	(175,000)	(150,000)	119,529
Total saponifiable materials	941,151	1,003,983	1,233,795	1,351,680	1,057,052

Continued -

Table 8.- Soap: Fats, oils, and rosin used in manufacture, United States, specified years, 1912-38 - Cont'd

Fat or oil	1921	1922	1923	1924	1925
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Hard oils (tallow class):					
Slow lathering -					
Tallow, inedible	373,223	429,966	412,749	428,881	390,789
Whale and fish oils 1/	37,613	90,505	73,269	67,781	98,940
Grease	136,322	161,985	160,167	292,123	242,466
Palm oil	24,386	30,389	102,323	82,250	119,400
Vegetable tallow	---	---	8,548	5,198	6,424
Total	571,544	712,845	757,056	876,233	858,019
Quick lathering -					
Coconut oil	194,417	237,702	267,982	260,000	286,000
Palm-kernel oil	593	685	3,287	4,440	45,037
Total	195,010	238,387	271,269	264,440	331,037
Soft oils:					
Cottonseed oil foots	76,018	61,966	52,676	77,214	109,824
Olive oil, foots and inedible	16,609	21,735	28,641	32,024	49,083
Red oil	13,149	10,431	12,233	14,000	14,000
Cottonseed oil	47,935	19,759	10,824	10,000	8,000
Soybean oil	10,756	2,307	3,266	2,500	2,250
Corn oil	2,405	4,941	5,617	5,000	5,000
Peanut oil	10,983	6,711	6,900	5,000	---
Miscellaneous soap stock	22,104	21,130	24,753	15,000	18,000
Other 2/	24,048	19,169	22,334	20,000	20,000
Total	224,007	168,149	167,244	180,738	226,157
Total fats and oils	990,561	1,119,381	1,195,569	1,321,411	1,415,213
Rosin 5/	(100,000)	141,350	143,378	104,956	140,615
Total saponifiable materials	1,090,561	1,260,731	1,338,947	1,426,367	1,555,828

Continued -

Table 8.-- Soap: Fats, oils, and rosin used in manufacture, United States, specified years, 1912-38 Cont'd

Fat or oil	1926	1927	1928	1929	1930
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Hard oils (tallow class):					
Slow lathering -					
Tallow, inedible	430,886	484,029	440,943	434,755	442,610
Whale and fish oils 1/	111,673	135,549	142,220	134,107	113,829
Grease	242,424	242,712	261,454	245,516	243,944
Palm oil	100,960	112,460	142,363	192,331	191,956
Vegetable tallow	2,477	5,688	7,262	10,211	6,042
Total	888,420	980,438	994,242	1,016,920	998,381
Quick lathering -					
Coconut oil	270,206	334,765	335,417	334,205	303,271
Palm-kernel oil	83,653	31,248	50,578	72,920	29,431
Total	353,859	366,013	385,995	407,125	332,702
Soft oils:					
Cottonseed oil foots	118,727	147,511	105,206	108,904	103,360
Olive oil, foots and inedible	52,206	48,190	48,060	53,629	49,842
Red oil	15,000	15,000	15,000	15,000	12,000
Cottonseed oil	5,000	7,500	20,000	12,000	7,500
Soybean oil	2,500	2,500	2,500	6,400	5,000
Corn oil	5,000	5,000	5,000	5,000	4,000
Peanut oil	3,000	2,000	3,000	1,700	1,500
Castor oil	---	---	---	4,835	---
Linseed oil	---	---	---	1,916	---
Miscellaneous soap stock	22,000	32,000	35,660	35,112	30,415
Other 2/	20,000	20,000	20,000	20,000	15,000
Total	243,433	279,701	254,426	264,496	228,617
Total fats and oils	1,485,712	1,626,152	1,634,663	1,688,541	1,559,700
Rosin 5/	118,257	100,227	91,269	114,300	109,484
Total saponifiable materials	1,603,969	1,726,379	1,725,932	1,802,841	1,669,184

Continued -

Table 8.- Soap: Fats, oils, and rosin used in manufacture, United States, specified years, 1912-38 Cont'd

Fat or oil	1931	1932	1933	1934	1935
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Hard oils (tallow class):					
Slow lathering -					
Tallow, inedible	523,714	549,186	508,824	662,858	663,002
Whale and fish oils 1/	127,095	98,035	97,063	98,544	138,410
Grease	129,403	143,724	124,743	142,782	98,086
Palm oil	172,228	168,009	187,962	154,704	87,311
Tallow, edible	1,494	1,969	2,389	1,098	1,431
Oleostearine	53	374	362	452	338
Lard	---	---	---	24	1
Vegetable tallow	3,256	511	---	---	---
Total	957,243	961,808	921,343	1,060,462	988,579
Quick lathering -					
Coconut oil	340,503	353,527	322,264	341,124	229,711
Palm-kernel oil	28,035	3,565	6,278	16,516	37,173
Total	368,538	357,092	328,542	357,640	266,884
Soft oils:					
Cottonseed oil foots and other foots 3/	152,000	152,000	145,000	141,000	191,000
Olive oil, foots and inedible	41,076	32,789	33,879	32,364	33,197
Soybean oil	3,816	5,571	4,235	1,354	2,549
Cottonseed oil	1,970	3,583	6,967	2,702	1,857
Corn oil	4,104	2,532	3,638	6,268	2,828
Castor oil	2,829	2,408	2,090	1,786	1,056
Linseed oil	1,488	985	980	1,022	1,196
Peanut oil	244	290	529	147	754
Sesame oil	8,197	1,871	758	466	749
Oleo oil	446	260	112	85	93
Rape oil	---	89	39	994	8,001
Olive oil, edible	14	52	61	51	33
Neatsfoot oil	33	27	20	61	33
Perilla oil	---	---	---	---	16
Tung oil	---	---	5	35	---
Sunflower oil	---	---	7,889	7,142	103
Other 4/	233	6,059	176	1,836	4,762
Total	216,450	208,516	206,378	197,313	248,227
Total fats and oils	1,542,231	1,527,416	1,456,263	1,615,415	1,503,690
Rosin 5/	119,934	130,675	132,086	141,732	139,375
Total saponifiable materials	1,662,165	1,658,091	1,588,349	1,757,147	1,643,065

Continued -

Table 8.- Soap: Fats, oils, and rosin used in manufacture, United States, specified years, 1912-38 Cont'd

Fat or oil	1936	1937	1938
	1,000 lb.	1,000 lb.	1,000 lb.
Hard oils (tallow class):			
Slow lathering -			
Tallow, inedible	660,020	613,509	702,267
Whale and fish oils 1/	160,647	189,009	145,954
Grease	98,714	94,247	96,356
Palm oil	78,453	141,358	91,642
Tallow, edible	228	143	332
Oleostearine	320	321	240
Lard	9	----	1
Total	998,391	1,038,587	1,036,792
Quick lathering -			
Coconut oil	307,376	252,241	342,982
Palm-kernel oil	26,443	111,514	29,498
Babassu oil	8,993	14,308	8,289
Total	342,812	378,063	380,769
Soft oils:			
Cottonseed oil foots and other foots 3/	183,000	183,000	208,000
Olive oil, foots and inedible	25,599	18,874	16,312
Soybean oil	5,023	10,274	10,897
Cottonseed oil	1,278	8,414	2,883
Corn oil	2,527	2,392	2,514
Castor oil	1,623	2,123	1,810
Linseed oil	1,482	1,359	1,455
Peanut oil	1,734	820	545
Sesame oil	1,869	2,944	302
Oleo oil	57	74	119
Rape oil	7,771	981	55
Olive oil, edible	53	21	31
Neatsfoot oil	41	16	20
Perilla oil	8	2	----
Tung oil	2	----	----
Other 4/	4,268	10,812	14,031
Total	236,335	242,106	258,974
Total fats and oils	1,577,538	1,658,756	1,676,535
Rosin 5/	148,536	136,410	6/ 125,000
Total saponifiable materials	1,726,074	1,795,166	1,801,535

Continued -

Table 8.- Soap: Fats , oils, and rosin used in manufacture, United States, specified years, 1912-38 cont'd

1/ Includes whale, herring, sardine, menhaden and other fish oils.

2/ These data are for item reported as miscellaneous (p. 127, U. S. Tariff Commission Report No. 41), plus difference between items reported as domestic animal fats and oils except marine (p. 127) and domestic tallow, inedible, grease, and red oil (p. 132), 1912-17. Beginning 1919, item reported as miscellaneous only.

3/ Estimated.

4/ Reported as "other vegetable oils".

5/ The rosin season extends from April of one year through March of the next year. Data are for calendar year in some cases and for season in other cases. Data are placed, however, in the calendar year in which most of the season occurs, i. e., 1938-39 data are placed in calendar year 1938.

6/ Preliminary.

Data for 1913, 1915, 1918 and 1920 not available.

Compiled as follows:
Fats and oils -
1912-30, U. S. Tariff Commission Report No. 41, p. 127, 130-132.
1931-38, Bureau of the Census, Animal and Vegetable Fats and Oils.

Rosin -
Naval Stores Division, U. S. Department of Agriculture.

Table 9.- Soap: Fats, oils, and rosin used in manufacture as percentage of total saponifiable materials, United States, specified years, 1912-38

Fat or oil	1912	1914	1916	1917	1919	1921	1922	1923	1924	1925	1926	1927
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Hard oils (tallow class):												
Slow lathering -												
Tallow, inedible	25.4	27.0	27.5	26.8	30.9	34.2	34.1	30.8	30.1	25.1	26.9	28.0
Whale and fish oils	1.2	1.6	1.0	1.0	1.3	3.5	7.2	5.5	4.8	6.4	7.0	7.9
Grease	8.1	8.4	8.3	8.5	3.2	12.5	12.8	12.0	20.5	15.6	15.1	14.1
Palm oil	.8	1.0	1.2	2.0	1.6	2.2	2.4	7.6	5.8	7.7	6.3	6.5
Other 1/	----	----	----	----	----	----	----	.6	.4	.4	.2	.3
Total	35.5	38.0	38.0	38.3	37.0	52.4	56.5	56.5	61.6	55.2	55.5	56.8
Quick lathering -												
Coconut oil	8.4	7.8	9.0	12.5	17.3	17.8	18.9	20.0	18.2	18.4	16.8	19.4
Palm-kernel oil	2.2	3.1	.5	.4	.4	.1	.1	.3	.3	2.9	5.2	1.8
Total	10.6	10.9	9.5	12.9	17.7	17.9	19.0	20.3	18.5	21.3	22.0	21.2
Soft oils:												
Cottonseed oil foots	9.5	10.8	9.1	8.5	10.3	7.0	4.9	3.9	5.4	7.1	7.4	8.5
Olive oil, foots and inedible	.6	.8	.9	.9	.5	1.5	1.7	2.1	2.2	3.1	3.2	2.8
Red oil	.9	1.0	.8	.9	2.3	1.2	.8	.9	1.0	.9	.9	.9
Soybean oil	.1	.4	4.6	9.2	5.5	1.0	.2	.3	.2	.1	.2	.1
Cottonseed oil	14.1	11.9	15.8	9.4	5.3	4.4	1.6	.8	.7	.5	.3	.4
Other 2/	7.5	7.7	7.1	8.8	10.1	5.4	4.1	4.5	3.0	2.8	3.1	3.5
Total	32.7	32.6	38.3	37.7	34.0	20.5	13.3	12.5	12.5	14.5	15.1	16.2
Total fats and oils	78.8	81.5	85.8	88.9	88.7	90.8	88.8	89.3	92.6	91.0	92.6	94.2
Rosin	21.2	18.5	14.2	11.1	11.3	9.2	11.2	10.7	7.4	9.0	7.4	5.8
Total saponifiable materials	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Continued -

Table 9.- Soap: Fats, oils, and rosin used in manufacture as percentage of total saponifiable materials, United States, specified years, 1912-38 - Cont'd

Fat or oil	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Hard oils (tallow class):											
Slow lathering -											
Tallow, inedible	25.6	24.1	26.5	31.5	33.1	32.0	37.7	40.3	38.2	34.2	39.0
Whale and fish oils	8.2	7.4	6.8	7.6	5.9	6.1	5.6	8.4	9.3	10.5	8.1
Grease	15.1	13.6	14.6	7.8	8.7	7.9	8.1	6.0	5.7	5.2	5.4
Palm oil	8.2	10.7	11.5	10.4	10.1	11.8	8.8	5.3	4.5	7.9	5.1
Other 1/	.4	.6	.4	.3	.1	.2	.1	.1	3/	3/	3/
Total	57.5	56.4	59.8	57.6	57.9	58.0	60.3	60.1	57.7	57.8	57.6
Quick lathering -											
Coconut oil	19.4	18.5	18.2	20.5	21.3	20.3	19.4	14.0	17.8	14.0	19.0
Palm-kernel oil	2.9	4.0	1.8	1.7	.2	.4	.9	2.3	1.5	6.2	1.6
Babassu oil	----	---	---	---	---	---	---	---	.5	.8	.5
Total	22.3	22.5	20.0	22.2	21.5	20.7	20.3	16.3	19.8	21.0	21.1
Soft oils:											
Cottonseed oil foots	6.1	6.0	6.2	9.1	9.2	9.1	8.0	11.6	10.6	10.2	11.6
Olive oil, foots and inedible	2.8	3.0	3.0	2.5	2.0	2.1	1.8	2.0	1.5	1.1	.9
Red oil	.9	.8	.7	---	---	---	---	---	---	---	---
Soybean oil	.1	.4	.3	.2	.3	.3	.1	.2	.3	.6	.6
Cottonseed oil	1.2	.7	.4	.1	.2	.5	.2	.1	.1	.5	.2
Other 2/	3.8	3.9	3.0	1.1	1.0	1.0	1.2	1.2	1.4	1.2	1.1
Total	14.9	14.8	13.6	13.0	12.7	13.0	11.3	15.1	13.9	13.6	14.4
Total fats and oils	94.7	93.7	93.4	92.8	92.1	91.7	91.9	91.5	91.4	92.4	93.1
Rosin	5.3	6.3	6.6	7.2	7.9	8.3	8.1	8.5	8.6	7.6	6.9
Total saponifiable materials	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

1/ Includes edible tallow, oleostearine, lard, and vegetable tallow as reported.
2/ Includes corn, castor, linseed, peanut, sesame, oleo, rape, edible olive, neatsfoot, perilla, tung, sunflower oils, soap stock, and "other" as reported.
3/ Less than .1 percent.

Computed from table 8.

Table 10.- Total drying industries: Estimated consumption of fats and oils, United States, 1931-

Item	Total use in the drying industries								
	1931	1932	1933	1934	1935	1936	1937	1938	1939
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Linseed oil 1/	471,318	353,989	375,923	408,886	465,021	478,026	570,788	479,830	
Tung oil 1/	89,967	74,303	102,143	116,982	129,098	121,086	150,523	91,814	
Perilla oil 1/	11,294	11,283	25,110	23,742	60,290	105,260	38,776	41,476	
Fish oil	26,989	19,616	22,089	25,039	32,470	39,736	44,340	29,781	
Soybean oil	8,901	11,593	14,274	13,353	17,871	17,419	17,157	18,847	
Castor oil	1,936	1,608	2,466	2,678	4,058	4,990	8,368	6,796	
Coconut oil	6	15	41	39	381	772	1,126	424	
Cottonseed oil	69	45	23	47	49	48	210	352	
Rape oil	48	41	41	93	192	181	139	134	
Corn oil	245	157	225	404	329	123	89	118	
Palm oil	3	1	31	13	2	3	3	10	
Olive oil foots	---	2	2	2	---	---	---	2/ 6	
Sunflower oil	---	---	291	2,540	310	97	3/	---	
Peanut oil	21	3	1	1	---	---	---	---	
Palm-kernel oil	---	28	---	---	---	---	---	---	
Other vegetable oil	322	1,205	1,283	297	1,929	11,372	1,524	2,133	
Grease	437	317	393	451	426	562	659	565	
Tallow, inedible	53	27	118	113	115	142	158	121	
Marine mammal oil	2	40	4	42	38	28	18	33	
Neatsfoot oil	---	11	20	17	158	8	16	11	
Tallow, edible	3	1	1	1	2	2	2	2	
Lard	---	---	5	3	4	5	3	2	
Oleo oil	52	28	15	---	---	---	---	2	
Total	611,666	474,313	544,499	594,743	712,743	779,861	833,899	672,457	

1/ Since drying oils are used directly as well as in factory consumption, these figures represent total domestic disappearance excluding small quantities reported by the Bureau of the Census as used in soap, shortenings, and miscellaneous products.

2/ Reported as "olive oil, inedible." 3/ If any, included with "other vegetable oil".

Compiled from Bureau of the Census, Animal and Vegetable Fats and Oils, annual. This is the total of tables 11 and 12 q.v.

Table 11.- Paint and varnish: Estimated consumption of fats and oils by these industries, United States, 1931-

Item	1931	1932	1933	1934	1935	1936	1937	1938	1939
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Linseed oil 1/	411,650	312,536	332,045	364,172	408,946	412,982	482,295	407,631	
Tung oil 1/	81,699	66,291	88,874	102,468	116,694	111,624	140,563	85,599	
Perilla oil 1/	10,535	9,489	18,865	18,679	49,812	85,603	28,971	32,762	
Fish oil	12,107	7,565	8,753	11,654	18,251	23,166	27,277	15,679	
Soybean oil	6,256	7,485	8,568	10,451	13,003	14,471	16,143	15,183	
Castor oil	1,805	1,461	2,072	2,299	3,480	3,766	6,455	5,283	
Coconut oil	4	13	39	37	379	771	1,124	422	
Cottonseed oil	62	37	9	18	36	34	43	184	
Rape oil	48	25	23	76	168	168	138	131	
Corn oil	245	136	213	404	329	123	89	118	
Palm oil	---	---	29	3	1	1	---	1	
Olive oil foots	---	2	2	2	---	---	---	2/ 6	
Sunflower oil	---	---	175	631	310	97	3/	---	
Peanut oil	20	3	1	---	---	---	---	---	
Other vegetable oil	322	1,205	1,283	260	1,929	4,614	1,498	1,912	
Grease	65	23	44	76	77	94	150	144	
Tallow, inedible	47	23	112	105	106	135	151	117	
Marine mammal oil	---	38	2	37	34	17	11	28	
Neatsfoot oil	---	11	20	16	157	7	15	9	
Oleo oil	44	24	13	---	---	---	---	2	
Total	524,909	406,367	461,142	511,388	613,712	657,673	704,923	565,211	

1/ Since linseed, tung and perilla oils are used directly as well as in factory consumption, these data represent total domestic disappearance excluding quantities reported by Bureau of the Census as factory consumption in linoleum, oilcloth and printing ink, and small quantities in soap, shortening and miscellaneous products.

2/ Reported as "olive oil, inedible."

3/ If any, included with "other vegetable oil."

Compiled from Bureau of the Census, Animal and Vegetable Fats and Oils, annual. See also tables 10 and 12.

Table 12.- Linoleum, oilcloth, and printing ink: Factory consumption of fats and oils by these industries, United States, 1931-

Item	1931	1932	1933	1934	1935	1936	1937	1938	1939
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.
Linseed oil	59,668	41,453	43,878	44,714	56,075	65,044	88,493	72,199	
Fish oil	14,882	12,051	13,336	13,385	14,219	16,570	17,063	14,102	
Perilla oil	759	1,794	6,245	5,063	10,478	19,657	9,805	3,714	
Tung oil	8,268	8,012	13,269	14,514	12,404	9,462	9,960	6,215	
Soybean oil	2,645	4,108	5,706	2,902	4,868	2,948	1,014	3,664	
Castor oil	131	147	394	379	578	1,224	1,913	1,513	
Cottonseed oil	7	8	14	29	13	15	167	168	
Palm oil	3	1	2	10	1	2	3	9	
Rape oil	---	16	18	17	24	13	1	3	
Coconut oil	2	2	2	2	2	1	2	2	
Sunflower oil	---	---	116	1,909	---	---	1/	---	
Corn oil	---	21	12	---	---	---	---	---	
Peanut oil	1	---	---	1	---	---	---	---	
Palm-kernel oil	---	28	---	---	---	---	---	---	
Other vegetable oil	---	---	---	37	---	6,758	26	221	
Grease	372	294	349	375	249	468	509	421	
Marine mammal oil	2	2	2	5	4	11	7	5	
Tallow, inedible	6	4	6	8	9	7	7	4	
Tallow, edible	3	1	1	1	2	2	2	2	
Lard	---	---	5	3	4	5	3	2	
Neatsfoot oil	---	---	---	1	1	1	1	2	
Oleo oil	8	4	2	---	---	---	---	---	
Total	86,757	67,946	83,357	83,355	99,031	122,188	128,976	107,246	

1/ If any, included with "other vegetable oil."

These data are factory consumption as reported by Bureau of the Census in Animal and Vegetable Fats and Oils, annual. See also tables. 10 and 11.

Table 13.- Total drying industries: Estimated consumption, expressed in percentages, of fats and oils, United States, 1931-38

Item	Total drying industries 1/							
	1931	1932	1933	1934	1935	1936	1937	1938
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Linseed oil	77.0	74.6	69.0	68.3	65.2	61.3	68.4	71.4
Tung oil	14.7	15.7	18.8	19.7	18.1	15.5	18.0	13.6
Perilla oil	1.8	2.4	4.6	4.0	8.5	13.5	4.6	6.2
Fish oil	4.4	4.1	4.1	4.2	4.6	5.1	5.3	4.4
Soybean oil	1.5	2.4	2.6	2.2	2.5	2.2	2.1	2.8
Castor oil	.3	.3	.4	.4	.6	.6	1.0	1.0
Other 2/	.3	.5	.5	.7	.5	1.8	.6	.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Paint and varnish							
Linseed oil	78.4	76.9	72.0	71.2	66.6	62.8	68.4	72.1
Tung oil	15.6	16.3	19.3	20.0	19.0	17.0	19.9	15.1
Perilla oil	2.0	2.3	4.1	3.6	8.1	13.0	4.1	5.8
Fish oil	2.3	1.9	1.9	2.3	3.0	3.5	3.9	2.8
Soybean oil	1.2	1.8	1.9	2.0	2.1	2.2	2.3	2.7
Castor oil	.3	.4	.4	.4	.6	.6	.9	.9
Other 2/	.2	.4	.4	.5	.6	.9	.5	.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Linoleum, oilcloth, and printing ink							
Linseed oil	68.8	61.0	52.6	53.6	56.6	53.2	68.6	67.3
Fish oil	17.2	17.7	16.0	16.1	14.4	13.6	13.2	13.2
Perilla oil	.9	2.6	7.5	6.1	10.6	16.1	7.6	8.1
Tung oil	9.5	11.8	15.9	17.4	12.5	7.8	7.7	5.8
Soybean oil	3.0	6.0	6.8	3.5	4.9	2.4	.8	3.4
Castor oil	.2	.2	.5	.5	.6	1.0	1.5	1.4
Other 2/	.4	.7	.7	2.8	.4	5.9	.6	.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

1/ Paint, varnish, linoleum, oilcloth and printing ink.

2/ Includes cottonseed, palm, rape, cottonseed, olive, sunflower, corn, peanut, and palm-kernel oils, item reported as "other" vegetable oils, grease, marine mammal oils, tallow, lard, neatsfoot and oleo oils when reported.

Table 14.- Estimated consumption of linseed, tung, and perilla oils, United States, year beginning July, 1889-1910 calendar year, 1912-30

Year beginning July	Linseed oil 1/	Tung oil 2/	Perilla oil 3/	Calendar year	Linseed oil 1/	Tung oil 2/	Perilla oil 3/
	1,000 lb.	1,000 lb.	1,000 lb.		1,000 lb.	1,000 lb.	1,000 lb.
1889	218,370	2,325		1912	460,639	42,707	
1890	360,364	2,597		1913	603,259	42,405	4/ 76
1891	233,738	2,469		1914	509,777	30,031	42
1892	173,683	2,892		1915	502,206	33,867	79
1893	151,548	4,107		1916	526,117	57,517	168
1894	252,119	2,900		1917	471,347	40,847	976
1895	389,026	2,484		1918	369,842	41,613	922
1896	228,857	2,763		1919	457,752	51,360	4,743
1897	224,079	2,305					
1898	271,173	2,683		1920	492,400	59,440	7,582
1899	293,301	2,705		1921	519,875	37,623	652
				1922	640,112	67,694	2,208
1900	245,434	2,743		1923	677,700	82,491	6,441
1901	409,854	3,038		1924	706,968	78,036	3,016
1902	562,624	2,998		1925	726,085	86,705	6,017
1903	436,898	9,161		1926	714,188	92,278	7,401
1904	399,053	10,274		1927	755,516	84,668	5,358
1905	394,702	14,173		1928	785,482	95,367	2,011
1906	367,013	18,308		1929	788,506	109,530	5,574
1907	337,095	13,935					
1908	354,786	21,794		1930	544,292	99,581	8,838
1909	428,170	43,142					
1910	406,063	52,715					

1/ 1889-90 to 1910-11, oil equivalent of flaxseed available for crushing, plus net imports of oil and flaxseed in terms of oil (see table 47 in Statistical Bulletin 59); 1912-30, domestic disappearance of oil (see table 45 in Statistical Bulletin 59).

2/ 1889-90 to 1905-06, imports for consumption; 1906-07 to 1910-11, general imports minus reexports; 1912-30, domestic disappearance of oil.

3/ Computed domestic disappearance.

4/ October 1 - December 31, not previously reported.

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